

MR2349-978

Appln. No. 10/749,506

Reply to Office Action dated 3/30/2005

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions, listing, of claims in the specification.

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LISTING OF CLAIMS:

Claim 1 (original) A multi-lamp drive device connected with a power source for driving at least a lamp, comprising:

a drive circuit comprising a pulse width modulation controller for outputting a modulation signal and a converter connected with said pulse width modulation controller and used for outputting an excitation power source based on said power source;

a transformer comprising a magnetic core, a primary coil and a secondary coil, said magnetic core having a first side column, a second side column and at least a central column between said first and second side columns, said primary coil being wound around said first side column and electrically coupled with said excitation power source, said secondary coil being wound around said second side column and electrically coupled with one end of at least a

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ballast component, the other end of said ballast component being connected to a

first end of at least a balanced inductor; and

at least a lamp whose one end is connected to a second end of said  
balanced inductor and whose other end is connected to said drive circuit.

Claim 2 (original) The multi-lamp drive device as claimed in Claim 1,  
wherein said lamp is a cold cathode fluorescent lamp.

Claim 3 (original) The multi-lamp drive device as claimed in Claim 1,  
wherein said ballast component is a capacitor having a relatively higher  
impedance.

Claim 4 (original) The multi-lamp drive device as claimed in Claim 1,  
wherein said balanced inductor is a winding coil of a balanced transformer.

Claim 5 (original) A multi-lamp drive device connected with a power  
source for driving at least a lamp, comprising:

a drive circuit comprising a pulse width modulation controller for  
outputting a modulation signal and a converter connected with said pulse width  
modulation controller and used for outputting an excitation power source based on  
said power source;

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a transformer comprising a magnetic core, a primary coil and a second coil, said magnetic core having a first side column, a second side column and at least a central column between said first and second side columns, said primary coil being wound around said first side column and electrically coupled with said excitation power source, said secondary coil being wound around said second side column and electrically coupled with one end of at least a ballast component, the other end of said ballast component being connected to a first end of at least a lamp; and

at least a balanced inductor whose one end is connected to a second end of said lamp and whose other end is connected to said drive circuit.

Claim 6 (original) The multi-lamp drive device as claimed in Claim 5, wherein said lamp is a cold cathode fluorescent lamp.

Claim 7 (original) The multi-lamp drive device as claimed in Claim 5, wherein said ballast component is a capacitor having a relatively higher impedance.

Claim 8 (original) The multi-lamp drive device as claimed in Claim 5, wherein said balanced inductor is a winding coil of a balanced transformer.

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Claim 9 (original) A multi-lamp drive device connected with a power source for driving at least a lamp, comprising:

a drive circuit comprising a pulse width modulation controller for outputting a modulation signal and a converter connected with said pulse width modulation controller and used for outputting an excitation power source based on said power source;

a transformer comprising a magnetic core, a primary coil and a secondary coil, said magnetic core having a first side column, a second side column and at least a central column between said first and second side columns, said primary coil being wound around said first side column and electrically coupled with said excitation power source, said secondary coil being wound around said second side column, one end of said secondary coil being electrically coupled with one end of at least a ballast component, the other end of said secondary coil being grounded, the other end of said ballast component being connected to a first end of at least a lamp; and

at least a balanced inductor whose one end is connected to a second end of said lamp and whose other end is connected to said drive circuit.

Claim 10 (original) The multi-lamp drive device as claimed in Claim 9, wherein said lamp is a cold cathode fluorescent lamp.

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Claim 11 (original) The multi-lamp drive device as claimed in Claim 9, wherein said ballast component is a capacitor having a relatively higher impedance.

Claim 12 (original) The multi-lamp drive device as claimed in Claim 9, wherein said balanced inductor is a winding coil of a balanced transformer.

Claim 13 (original) A multi-lamp drive device connected with a power source for driving at least a lamp, comprising:

a drive circuit comprising a pulse width modulation controller for outputting a modulation signal and a converter connected with said pulse width modulation controller and used for outputting an excitation power source based on said power source;

a transformer comprising a magnetic core, a primary coil and a secondary coil, said magnetic core having a first side column, a second side column and at least a central column between said first and second side columns, said primary coil being wound around said first side column and electrically coupled with said excitation power source, said secondary coil being wound around said second side column, one end of said secondary coil being electrically coupled with one end of at least a ballast component, the other end of said

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secondary coil being grounded, the other end of said ballast component being

connected to a first end of at least a balanced inductor; and

at least a lamp whose one end is connected to a second end of said

balanced inductor and whose other end is connected to said drive circuit.

Claim 14 (original) The multi-lamp drive device as claimed in Claim 13,

wherein said lamp is a cold cathode fluorescent lamp.

Claim 15 (original) The multi-lamp drive device as claimed in Claim 13,

wherein said ballast component is a capacitor having a relatively higher

impedance.

Claim 16 (original) The multi-lamp drive device as claimed in Claim 13,

wherein said balanced inductor is a winding coil of a balanced transformer.

Claims 17-20 (canceled).